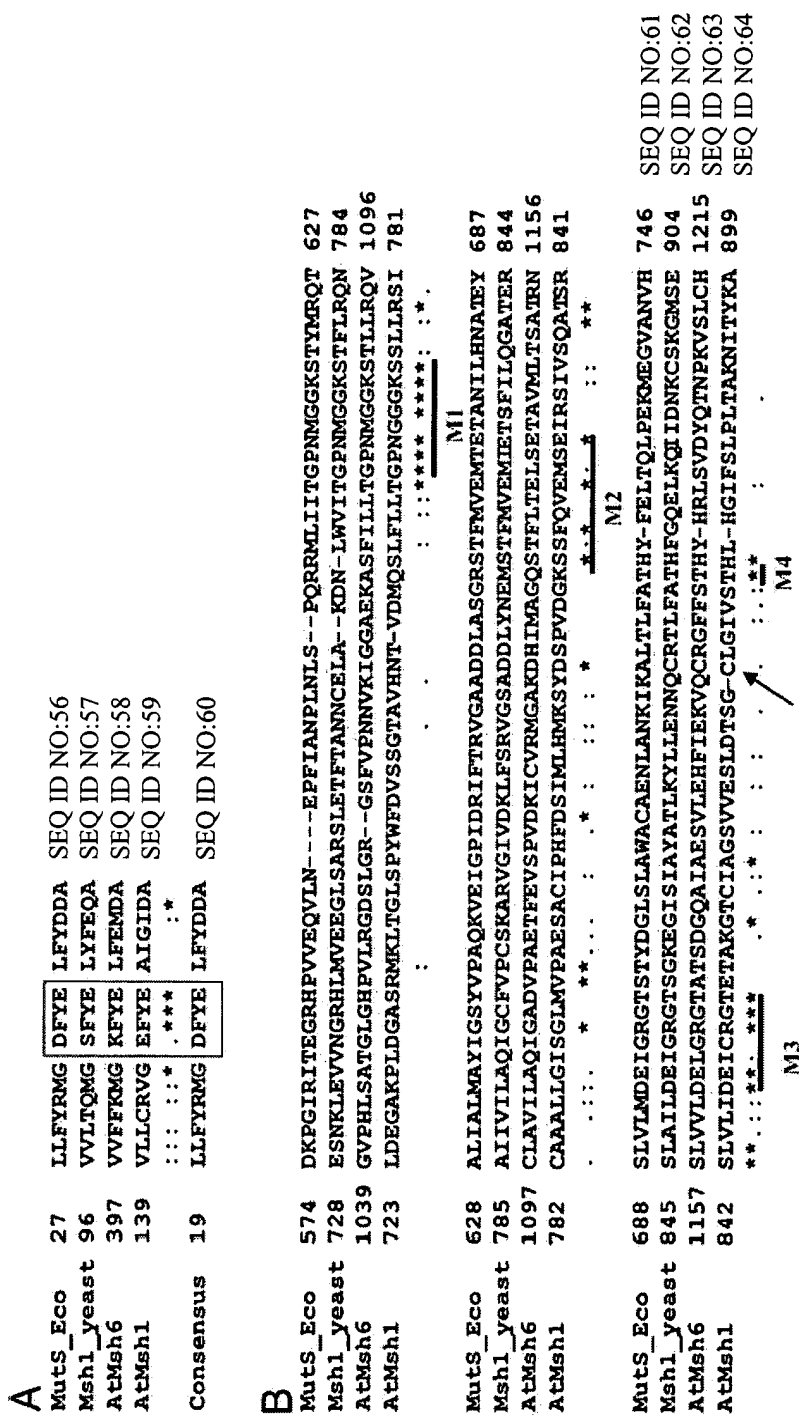


Figure 1



	1	50
Arabidopsis	(1) --MHWTATRNAVVSFPKWR---FFRSSMRTYSSLKPSSPILNRRYSEG	
Common Bean	(1) --MYRAVIRNVAVFLPRCRSLSHSHSLFPFESSLPSRFLRINGRVKNV	
Soybean	(1) --MYRVATRNVAFFPRCCSFAHYTPSLFPITSFAPSRFLRINGCVKNV	
Rice	(1) MAIQRLLASSLVAATPRWLP-----VAADSFLRRRHRPRCSPIPALLFNR	
Tomato	(1) --MYWVTAKNVVSVPRWR-----SLSLFLRPPLRRRFLSFSPTLTC	
Consensus	(1) MYRV TRNVVS PRWR F SSF F S PSR L ING V N	
	51	100
Arabidopsis	(46) ISCLRDKSLKRITTASKKVKTSDDLTKDLSHLVWVKERLOTCKKPSST	
Common Bean	(49) STYMDNRRVSRGSSRTTKKPKVPNNVLDDKDLPHISWWKERLOMCKKFST	
Soybean	(49) PSYTDKKVS-RGSSRAFKKPKIPNNVLDDKDLPHILWWKERLOMCKKFST	
Rice	(46) RSWSKPRKVSRSISIVSRKMNKQGDLCNEGMLPHILWWKEKMERCRKPS	
Tomato	(41) REQTRCVKERKFFATTAKKQKSTPEEKDYVNLWWKERMEFLRKPS	
Consensus	(51) SYIR K R S SKLK P VLDDKDLPHILWWKERLO CRKPS	
	101	150
Arabidopsis	(96) MQLTERLMYTNLGLDPSLRNGSLKDGNLNWEMLQFKSRFPREVLLCRVG	
Common Bean	(99) VQLTORLEESNLGLDPSLRNGSLKEGTLNWEMLQFKSKFPQVLLCRVG	
Soybean	(98) VQLTERLEESNLGLNSNLKNGSLKEGTLNWEMLQFKSKFPQVLLCRVG	
Rice	(96) MQLTQRLVYSNLTGLDPSLRNGSLKDGSLNTEMLQFKSKFPREVLLCRVG	
Tomato	(91) ALLAKRLTYCNLLGMDPSLRNGSLKEGTLNSEMLQFKSKFPREVLLCRVG	
Consensus	(101) VQLI RL YSNLLGLDPSLRNGSLKEGTLNWEMLQFKSKFPREVLLCRVG	
	151	200
Arabidopsis	(146) EFYEAIGIDACILVEYAGLNPFGLRSDSIPKAGCPVNLROTLLDDLTRN	
Common Bean	(149) EFYEAWGIDACILVEYAGLNPCGGLOSDSVPRAGCPVNLROTLLDDLTON	
Soybean	(148) EFYEAWGIDACILVEYVGLNPIGGLRSDSIPRASCVPVNLROTLLDDLTTN	
Rice	(146) DFYEAIGFDACILVEHAGLNPFGLRSDSIPKAGCPVNLROTLLDDLTRC	
Tomato	(141) DFYEAIGFDACILVEYAGLNPFGLHSDSIPKAGCPVNLROTLLDDLTRN	
Consensus	(151) EFYEAIGIDACILVEYAGLNPFGLRSDSIPKAGCPVNLROTLLDDLTRN	
	201	250
Arabidopsis	(196) GYSVCIVEEVQGPTPARSRKGRFISGHAHPGSPYVYGLVGMVDHDLDFPDP	
Common Bean	(199) GYSVCILEEVQGPTQARSRKRRFISGHAHPGNPYVYGLAAVDHDLNFPPEP	
Soybean	(198) GYSVCIMEEAQGPTQARSRKRRFISGHAHPGNPYVYGLATVDHDLNFPPEP	
Rice	(196) GYSVCIMEETQGPTQARARKGRFISGHAHPGSPYVEGLAEVDHDMVEFPDP	
Tomato	(191) GYSVCIVEEVQGPTQARARKSRFISGHAHPGSPYVEGLVXDDQDLDFPPEP	
Consensus	(201) GYSVCIVEEVQGPTQARSRK RFISGHAHPGSPYVYGLA VDHDLDFPEP	
	251	300
Arabidopsis	(246) MPVVGISRSARGYCMISTFETMKAYSLDDGLTEEAVTKLRTRCRHHFL	
Common Bean	(249) MPVVGISHSARGYCTNMVLETMTKYSYEDCLTEEAVTKLRTCQYHHLFL	
Soybean	(248) MPVVGISHSARGYCTNMVLETMTKYSSEEDCLTEEAVTKLRTCQYHHLFL	
Rice	(246) MPVVGISRSARGYCLTSVLETMTKYSAEGLTEEAVTKLRICRYHHLML	
Tomato	(241) MPVVGISRSARGYCLTSVYETMTKYSVEDGLTEEAVTKLRTCRCHHFL	
Consensus	(251) MPVVGISRSARGYCIISVLETMTKYS EDGLTEEAVTKLRTCRYHHLFL	
	301	350
Arabidopsis	(296) HASLRHNASGTCRWGEFGEGLLWGECCSRNFEWFEGDTLSELLSRVKDV	
Common Bean	(299) HTSLTODSCGTSKWGEFGEGLLWGECCSRHFEWFDGSPLSDLLVKVKEL	
Soybean	(298) HTSLRRNSCGTCNWGEFGEGLLWGECCSRHFDWFDGNPVSDDLAKVKEL	
Rice	(296) HSSLRNSSGTSRWGEFGEGLLWGECCSKSFEWFDGNPTEELLCKVRET	
Tomato	(291) HNSLRNNSSGTSRWGEFGEGLLWGECCNARQOEWLGNPTEDELLFKVKEL	
Consensus	(301) HTSLRNNSGTSRWGEFGEGLLWGECCSR FEWFDGNPISELL VKVEL	
	351	400

Figure 3

BEST AVAILABLE COPY

Arabidopsis	(346)	YGLDDEVSRFRNINVPSSKNRPRPLHLGTATQIGALPTEGIPCLLKVLLPST	450
Common Bean	(349)	YGLDDEVTFRNTITVSSRHRARPLTLGTSTQIGATHTEGIPSLLKVLLSPS	
Soybean	(348)	YSIDDEVTFRNTITVSSGHRARPLTLGTSTQIGATPTEGIPSLLKVLLPSN	
Rice	(346)	YGLEEKTVFRNVSVSLEGRBQPLMLGTATQIGVLPTEGIPSLLKVLLPPN	
Tomato	(341)	YGLNDDIPFRNITVVSSENRRPLHLGTATQIGALPTEGIPCLLKVLLPPH	
Consensus	(351)	YGLDDEVTFRNVTVSS RPRPLHLGTATQIGAIPTEGIPSLLKVLLPP	
Arabidopsis	(396)	CSGLPSLYVRDLLLNPPAVDTALKIOETCKLMSSVTCSIPEFTCVSSAKL	500
Common Bean	(399)	CNGLPVLYIRNLLLNPPSYETASKIOETCKLMSSVTCSIPEFTCVSSAKL	
Soybean	(398)	CNGLPVLYIRDLLLNPPSYETASKIOETCKLMSSVTCSIPEFTCVSSAKL	
Rice	(396)	FGGLPSLYIRDLLLNPPSFDAVASSVOEACRLMGSTTCISIPEFTCTPAKL	
Tomato	(391)	CSGLPVLYIRDLLLNPPAVETSSDIOEACRLMMSVTCSIPEFTCTSSAKL	
Consensus	(401)	C GLPVLYIRDLLLNPPSYETASKIQETCKLMSSVTCSIPEFTCVSSAKL	
Arabidopsis	(446)	VKLEQREANVIEFCRIKNVLDLVLMHHRHAEIVELIKLLMDPTWVATGL	550
Common Bean	(449)	VKLEWREVNHIIEFCRIKNVLDLILHMYKTSSELNEILKHLMDPTWATTGL	
Soybean	(448)	VKLEWREVNHIIEFCRIKNVLDLILOMYSTSELNEILKHLMDPTWVATGL	
Rice	(446)	VKLESKEVNHIIEFCRIKNVLDLVLFGSNALSAILNKLLDPAATVTGF	
Tomato	(441)	VKLELREANVIEFCRIKSNVBEILQYRNSLRAIVELLMPTWVATGL	
Consensus	(451)	VKLE REVNHIIEFCRIKNVLDLIL MYR SEL EILK LIDPTWVATGL	
Arabidopsis	(496)	KIDFDTLVNECHWASDTIGEMISIDENESHQNVSKCDNVPNEFFYDMESS	600
Common Bean	(499)	DIDFETLVSGCEVASSKISEPISIDCGN-DOKINSLSIIPYEFFEDTESK	
Soybean	(498)	EIDFETLVVAGCEIASSKIGELVSDDEN-DOKINSFSFIPHEFFEDMESK	
Rice	(496)	KVEADILVNECSFISORIAEVISIGGES-DOATTSSEYIPKEFFENGMESS	
Tomato	(491)	KVDFDTLVNECGKISCRISLISVHGEN-DOKISSYPIIPNDFEDMELL	
Consensus	(501)	KIDFDTLVNEC AS KISEIISLDGEN DQKISS IP EFFEDMES	
Arabidopsis	(546)	WKGRVKRIHIEEFTVEKSAEALSTAVAEDFHPITISRIKATTASTGGPK	650
Common Bean	(548)	WKGRVKRIHIDEVETAVQKAAEVLHIAVTEDFVPVWSRVKATTAPLGGPK	
Soybean	(547)	WKGRVKRIHIDDDVETAVEKAAEALHIAVTEDFVPVWSRIKATVAPLGGPK	
Rice	(545)	WKGRVKRVHAEIEESNVDIATAEALSTAVIEDFIPITISRMKSVMSNGSSK	
Tomato	(540)	WKGRVKRIHIEEAEVEKAADALSTAVTEDFIPITISRIKATMAPLGGTK	
Consensus	(551)	WKGRVKRIHIEE FT VEKAAEALSIAVTEDFLPIISRIKATMAPLGGPK	
Arabidopsis	(596)	GEIAYAREHEAVWFKGKRFTPSLWAGTAGEDQIKQLRPAIDSKGKKVGEE	700
Common Bean	(598)	GEISYAREHEAVWFRGKRFTPSLWGSFGGEEQIKQLRHAIIDSKGKRVGEE	
Soybean	(597)	GEISYAREQEAHVWFKGKRFTPNLWAGSPGEEQIKQLRHAIIDSKGKRVGEE	
Rice	(595)	GEISYAKEHEAVWFKGRRFTPNLWANTPEGELQIKQLRPAIDSKGKRVGEE	
Tomato	(590)	GEILYAREHCAVWFKGKRFPVPLWAGTAGEEQIKQLRPAIDSKGKRVGEE	
Consensus	(601)	GEISYAREHEAVWFKGKRFTPSLWAGTPGEEQIKQLRPAIDSKGKKVGEE	
Arabidopsis	(646)	WFTTPKVEALTRYHEASENAKRVLELLREL SVKLOTKINVLVFASMLL	
Common Bean	(648)	WFTTPKVEAALTRYHEANAKATERVLELLRELALHELHYSINILVFSSTLL	
Soybean	(647)	WFTTPKVEAALTRYHEANAKAKERVLELLRGLAALLOYSINILVFSSTLL	
Rice	(645)	WFTTIKVENALTRYHEACDNAKRVLELLRGLSSELQDKINVLVFCSTML	
Tomato	(640)	WFTTMRVEDAALTRYHEASAKRSRVLELLRGLSSELLSKINILVFSVLN	
Consensus	(651)	WFTTPKVE ALTRYHEA AKAK RVLELLRGLSSELQ KINILVFASMLL	

Figure 3 (cont'd)

		701		750
Arabidopsis	(696)	VISKALFSAHACEGRRRKWVEPTTVGFSLDEGAKPLDGASRMKLTGLSPYW		
Common Bean	(698)	VITKALFAHASEGRRRRRWVEPTTAAESNGFEDVKSSDKIHGMKTVGLAPYW		
Soybean	(697)	VIKALFAHASEGRRRRRWVEPTTVESHGFEDVKSLDKTHGMKTSGLLPYW		
Rice	(695)	VITKALFGHVSEGRRRGWLPNTISP--LCKDNVTEFISSEMELSGTFPYW		
Tomato	(690)	VIKSLFSAHVSEGRRRNWVEPTTQFNKCDTEANGIDGMKLTIGLSPYW		
Consensus	(701)	VITKALFAHASEGRRRRRWVFP TL	ED KSLD T GMKISGLSPYW	
		751		800
Arabidopsis	(746)	FDVSSGTAVHNTVDMOSTFILTGPNGGGKSSILRSICAAALLGTCGLMVP		
Common Bean	(748)	FHTAEG-IVRNDVDMOSTFILTGPNGGGKSSILRSICAAALLGTCGLMVP		
Soybean	(747)	FHTAEG-VVRNDVDMOSTFILTGPNGGGKSSILRSICAAALLGTCGLMVP		
Rice	(743)	LDTNQGNATLNDVHMHSILFILTGPNGGGKSSILRSVCAAALLGTCGLMVP		
Tomato	(740)	FDAAARGTEVQDTVDMQSMFILTGPNGGGKSSILRSICAAALLGTCGLMVP		
Consensus	(751)	FDIA G AV NDVDMQSLFLLTGPNGGGKSSLLRSICAAALLGTCGLMVP		
		801		850
Arabidopsis	(796)	AESACIPHFDSIMLHMKS YDSPVDGKSSFQVEMSEIRSLVSOATSRSLVL		
Common Bean	(797)	AESAVIPYFDSITLHMKS YDSPADKKSSFQVEMSEIRSLIGGTTKRSLVL		
Soybean	(796)	AESAVIPYFDSITLHMKS YDSPADKKSSFQVEMSEIRSLIGGTTNRSLVL		
Rice	(793)	AASAVIPHFDSIMLHMKA YDSPADGKSSFQTEMSEIRSLVCRATARSVL		
Tomato	(790)	AESAVIPHFDSIMLHMKS YDSPVDGKSSFQTEMSEIRSLITGATSRSLVL		
Consensus	(801)	AESAVIPHFDSIMLHMKS YDSPADGKSSFQVEMSEIRSLI GATSRSLVL		
		851		900
Arabidopsis	(846)	IDEICRGTTETAKGTCTIAGSVVESLDTSGCLGIVSTHLHGIFSLPLTAKNI		
Common Bean	(847)	VDEICRGTTETAKGTCTIAGSIITETLERIGCLGIVSTHLHGIFLPLNKKST		
Soybean	(846)	VDEICRGTTETAKGTCTIAGSIITELDGGCLGIVSTHLHGIFLPLNKKNT		
Rice	(843)	IDEICRGTTETAKGTCTIAGSIITERLDNVGCLGIVSTHLHGIFDLPLSHTNT		
Tomato	(840)	IDEICRGTTETAKGTCTIAGSVIETLDEIGCLGIVSTHLHGIFDLPLKIKKKT		
Consensus	(851)	IDEICRGTTETAKGTCTIAGSIITETLD IGCLGIVSTHLHGIFTLPL IKNT		
		901		950
Arabidopsis	(896)	TVKAMGAENVEGOTKPTWKLTDGVCKESLAFETAKREGVPESVITORAEAL		
Common Bean	(897)	VHKAMGTTCTIDGOIIPPTWKLTDGVCKESLAFETAIREGTPPEITIRRAECL		
Soybean	(896)	VHKAMGTTSTIDGOIMPPTWKLTDGVCKESLAFETAKREGTPEHIVRRAEYL		
Rice	(893)	DFKAMGTEITDRCTOPTWKLMDGICRESLAFQTARKEGMPDLITIRRAEEL		
Tomato	(890)	VVKAMGAEYVDGQPIPTWKLIDGICCKESLAFETAOREGTPPEITIRAEEL		
Consensus	(901)	VHKAMGTE IDGQIIPPTWKLTDGVCKESLAFETAKREGIPE IIRRAE L		
		951		1000
Arabidopsis	(946)	YLSVYAK-----DASEVVKPDQITTSNN-----DQIQKPV		
Common Bean	(947)	YKSVYA-----EENFPNEEFSTCANNNNNTSTY-----SKGFLSGA		
Soybean	(946)	YQLVYAKEMLF AENFPNEEFSTCANNNNNGTHH-----SKRFLSGA		
Rice	(943)	YLAMSTN-----SKHTSSAVHHEISTANSTVNSTVEKPNYLNRNGLELOS		
Tomato	(940)	YNSAVGNQIPRKIDQIRPLRSDIDLNSTDNSSDQNLNGTRQIALDSSTKLM		
Consensus	(951)	Y SVYA	EK S INI NL TTSL	A
		1001		1050
Arabidopsis	(979)	SSERSTLEKDLAKATVKICGKKMTEP-----EATECTSTGARELPPP		
Common Bean	(986)	NQMEGFROEVERAITVICQDYIMERKNKKIALETETKCLLIGKREOPPP		
Soybean	(990)	NQMEVIREEVERAVTVICQDHKKDKCKKIALETETKCLLIGKRELPPP		
Rice	(987)	GSFGLRKEITESVITTCCKKLLDLYNKRSSISELIEVVCMAVGAREOPPP		
Tomato	(990)	HRMGITSSKKLEDAITCLICEKKLIELYKMKNPSEMPMNCVLLTAAREOPAP		
Consensus	(1001)	M ILRKELERAITVIC KKIIE L KK	EL EI CLLIGAREQPPP	
		1051		1100

Figure 3 (cont'd)

BEST AVAILABLE COPY

Arabidopsis	(1020)	STVGGSSCVYVMRRPDKRLVIGQTDDEGRVRAHRAKEGTQGSSEFLYLMVQ
Common Bean	(1036)	SVVGSSSVYVMFTPDKKLYVGETDDLEGRVRRHRLKEGMDEASEFLYFLVP
Soybean	(1040)	SVVGSSSVYVMFRPDKKLYVGETDDLEGRVRRHRLKEGMDEASEFLYFLVP
Rice	(1037)	STVGRSSITYVILIRDSKLYIGQTDDELVGRVSAHRSKEGMDATILYILVP
Tomato	(1040)	STVGASSVYIMLRPDKKLYVQTDDEGRVRAHRLKEGMENASELYFLVS
Consensus	(1051)	STVGSSSVYVM RPDKKLYVGQTDDEGRVRAHRLKEGM DASFLYFLVP
		1101 1150
Arabidopsis	(1070)	GKSMACQLETLLINQLHEOGMSLANMADGKHRNFGTSSSLSTSDVVSIL-
Common Bean	(1086)	GKSIACQFESLLINQLSSQGFQLSNMADGKHRNFGTSNTYA-----
Soybean	(1090)	GKSIACQFESLLINQLSGQGFQLSNMADGKHRNFGTSNTYT-----
Rice	(1087)	GKSIACQLETLLINQLPLKGFKLINKADGKHRNFGISLVPGEAIAA----
Tomato	(1090)	GKSIACQLETLLINQLPNHGFQLINMADGKHRNFG-----
Consensus	(1101)	GKSIACQLETLLINQL QGFQLSNIADGKHRNFGTS L

Arabidopsis	SEQ ID NO: 3
Common Bean	SEQ ID NO: 47
Soybean	SEQ ID NO: 31
Rice	SEQ ID NO: 22
Tomato	SEQ ID NO: 40
Consensus	SEQ ID NO: 65

Figure 3 (cont'd)